OIPE JC187
FEB 04 2004
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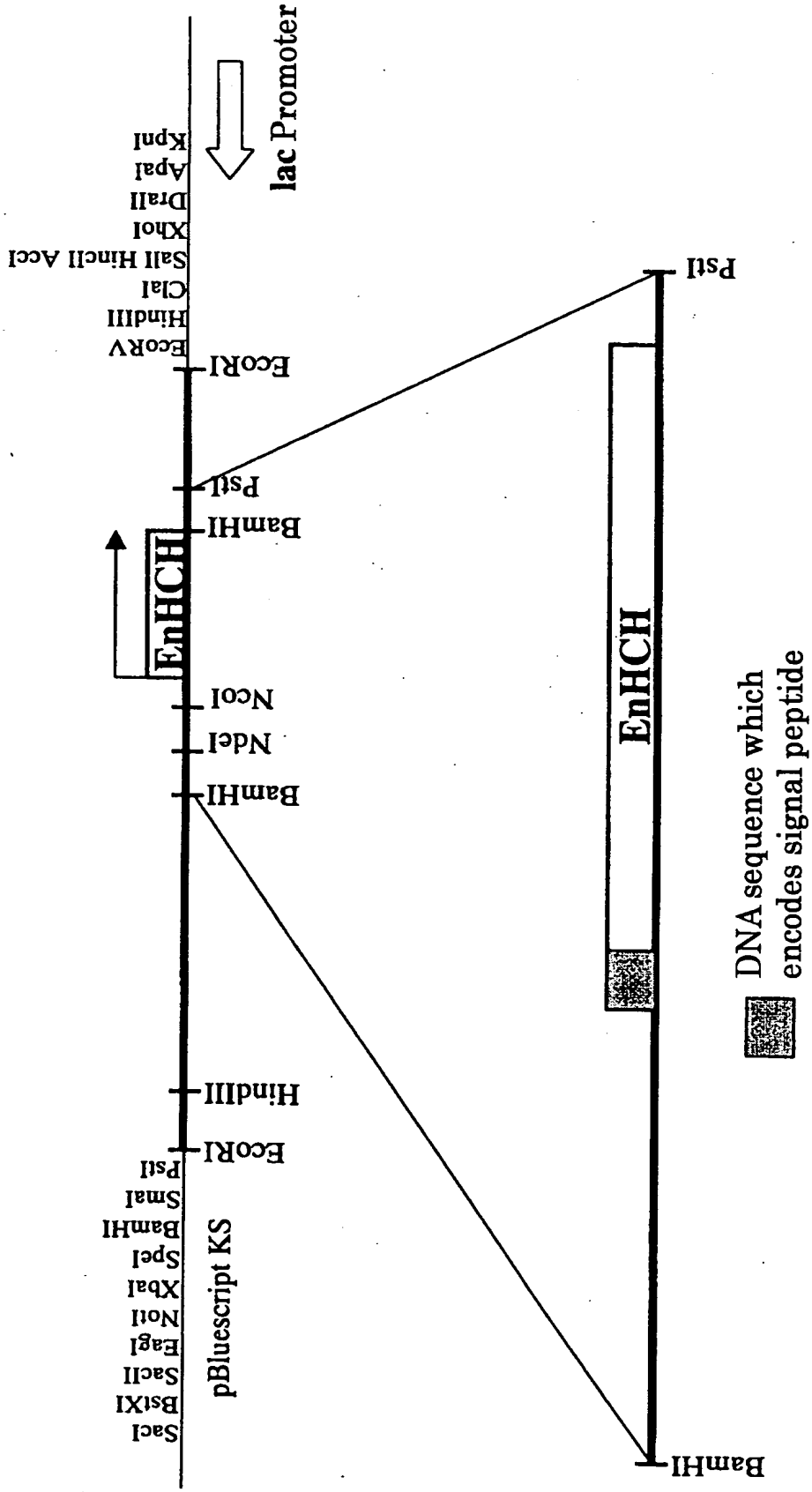

Fig.1

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Fig.2

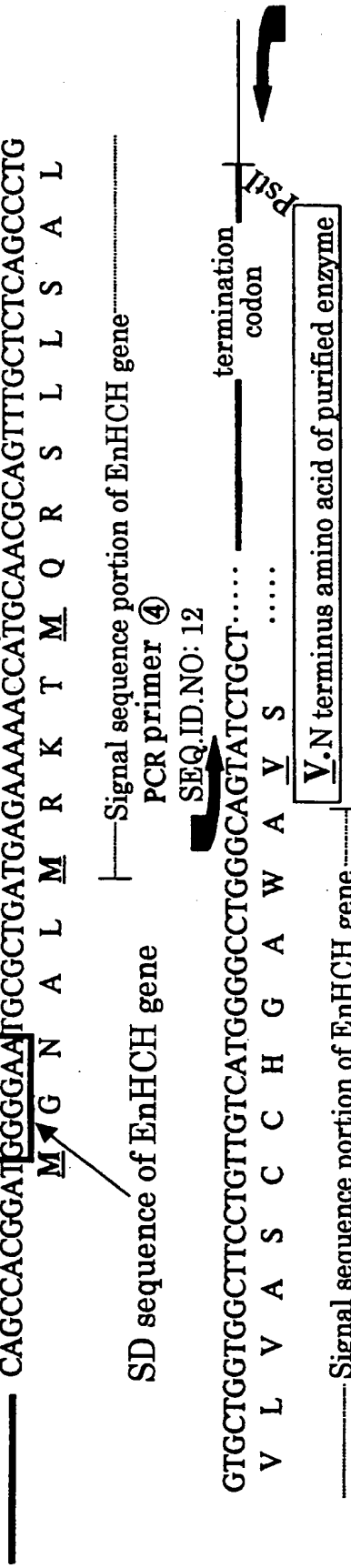
PCR primer ①
SEQ.ID.NO: 9
PCR primer ②
SEQ.ID.NO: 10
PCR primer ③
SEQ.ID.NO: 11
CAGCCACGGATGGGGAATGCGCTGATGAGAAAAACCATGCAACGCAGTTTGCTCTCAGCCCTG
M G N A L M R K T M Q R S L L S A L
SD sequence of EnHCH gene
Signal sequence portion of EnHCH gene
PCR primer ④
SEQ.ID.NO: 12
GTGCTGGTGGCTTCCTGTTGTCATGGGGCCTGGGCAGTATCTGCT·····
V L V A S C C H G A W A V S ·····
termination codon
PstI
V.N terminus amino acid of purified enzyme
Signal sequence portion of EnHCH gene

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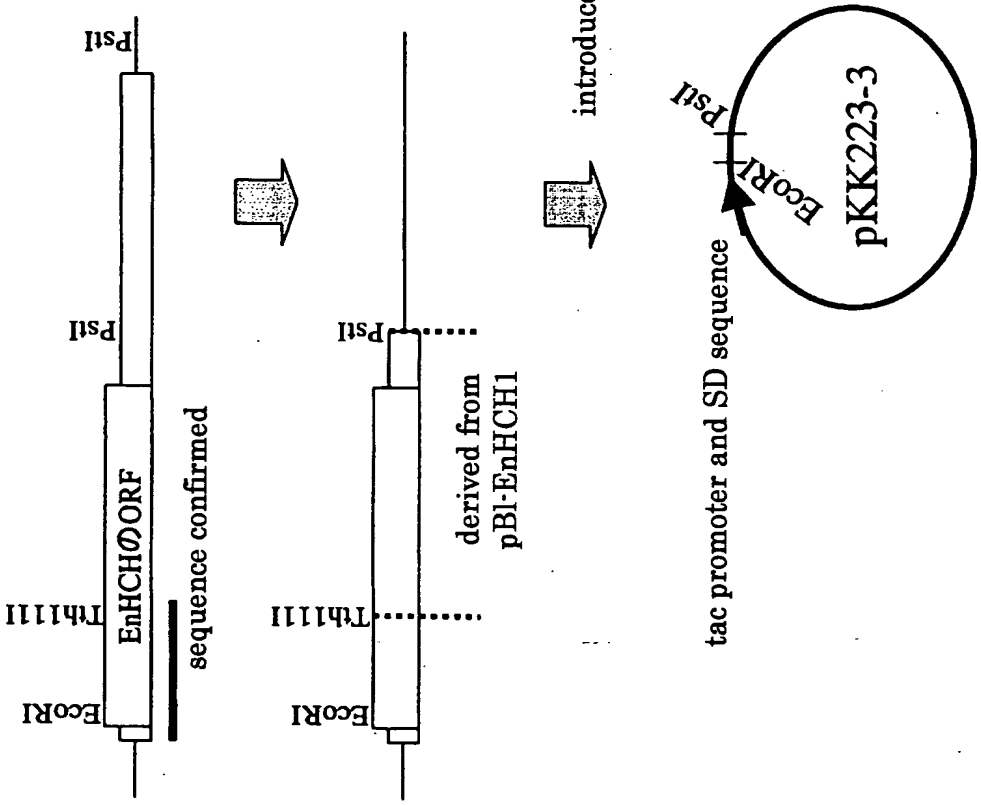
Fig.3


4 kinds of PCR products subjected to subcloning to pUC118 at blunt end and having different upstreams (PCR products of PCR primer ① to ④ and M13 primer)
exchanged with pBl-EnHCH drived between Tth111I-PstI
introduced into pKK223-3 at EcoRI-PstI
PstI
EnHCHØORF
Tth111I
EcoRI
sequence confirmed
derived from pBl-EnHCH1
tac promoter and SD sequence
pKK223-3

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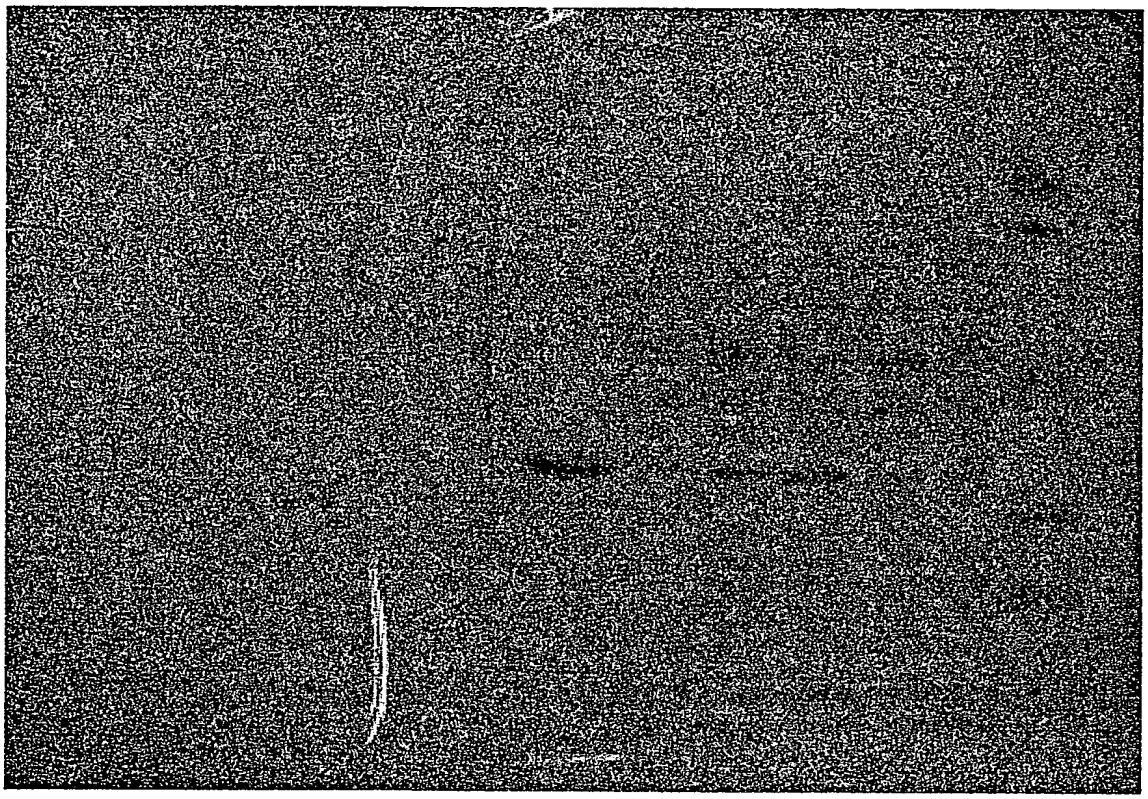
Fig.4